AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0055] with the following amended paragraph:

[0055] Accordingly one very low complexity approximation to the expectation value is a three part piece-wise ~~linear~~ function that maps s to 0 (or nearly 0) if v_i is between plus and minus σ_i^2/a_i, maps s to $v_i-\sigma_i^2/a_i$, if $v_i>\sigma_i^2/a_i$, and maps s to $v_i+\sigma_i^2/a_i$, if $v_i<-\sigma_i^2/a_i$. This approximation is very accurate if the absolute value of v_i is more than two times σ_i^2/a_i, or less than a third of σ_i^2/a_i. Of course, other approximations to the integral can be used to generate the approximate expectation of s, that will be accurate within respective regimes as desired.